

2011  
( MAY/JUNE )  
SYSTEM ANALYSIS AND DESIGN  
COURSE NO. 402  
Full Mark:75  
Time : 3 Hours

(Part: B-Descriptive)  
(Marks: 50)

Answer the following questions:

1. What is System Analysis? Describe the different types of users. (10)

OR

- What is System Design? Explain the Categories of Information System. (10)

2. Describe Systems Development Life Cycle with diagram? (10)

OR

- (a) What is the difference between Physical and Logical Data Flow Diagram (DFD)? (4)

- (b) Explain the three techniques of fact finding? (6)

3. WHAT IS CASE? DESCRIBE THE FOUR BENEFITS OF COMPUTER Assisted Tools? (10)

OR

- (a) What are the objectives of Output? Write the types of Output? (6)
- (b) How to present information in Output form? (4)

4. Define Quality Assurance? Explain the level of Quality Assurance. (10)

OR

What is Conversion? Describe the four methods of handling a system conversion. (10)

5. Write the Data Flow Diagram and Database Design of Payroll System? (10)

OR

Write the Data Flow Diagram and Database Design of Billing System? (10)

IV/BCA/402

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(Part: A-Objective)  
(Marks: 25)

*The figures in the margin indicates full marks for the question.*

Choose the correct answer: (1x10=10)

(a) The process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements to the system.

- |       |                  |     |
|-------|------------------|-----|
| (i)   | System Design    | ( ) |
| (ii)  | System Analysis  | ( ) |
| (iii) | Structure Design | ( ) |
| (iv)  | Prototype        | ( ) |

(b) A matrix of rows and columns that shows conditions and actions.

- |       |                   |     |
|-------|-------------------|-----|
| (i)   | Structure English | ( ) |
| (ii)  | Decision Tree     | ( ) |
| (iii) | Decision Rule     | ( ) |
| (iv)  | Decision Table    | ( ) |

(c) Analysts can gain information they cannot obtain by any other fact-finding method.

- (i) Interview ( )
- (ii) Questionnaire ( )
- (iii) Record Review ( )
- (iv) Observation ( )

(d) Systems that interact with their environment.

- (i) Open System ( )
- (ii) Close System ( )
- (iii) Standard ( )
- (iv) Feedback ( )

(e) Any information produced by an information system.

- (i) Input Design ( )
- (ii) Output Design ( )
- (iii) Form Design ( )
- (iv) Code Design ( )

(f) A method aimed at detecting errors in input.

- (i) Transaction Validation ( )
- (ii) Sequence Test ( )
- (iii) Input Validation ( )
- (iv) Automatic Correction ( )

(g) A design aid and documentation technique for representing the modules of a system as a hierarchy developed by IBM.

- (i) HIPO ( )
- (ii) Structure Flowchart ( )
- (iii) Warnier / Orr Diagram ( )
- (iv) Structure English ( )

(h) It determine the capacity of the system to store transaction data on a disk or in other files.

- (i) Peak load testing ( )
- (ii) Recovery testing ( )
- (iii) Storage testing ( )
- (iv) Procedure testing ( )

(i) A graphic tool used to describe and analyze the movement of data through a system-manual including the processes, stores of data , data flow , source and destination.

- (i) Data Flow Diagram. ( )
- (ii) Data Dictionary. ( )
- (iii) Data Flow Analysis. ( )
- (iv) Decision Table. ( )

(j) Analysts used C language programming style to identify the condition that occur in a process, decision that must be made when the condition occur and alternative action to take.

- (i) Decision Tree ( )
- (ii) Structure English ( )
- (iii) Decision Table ( )
- (iv) DFD ( )

**II. State whether True or False**

(1x5=5)

(c)

- (i) System is a set of components that interact to accomplish some purpose.  
( T / F )
- (ii) A prototype is a working system that is developed to test ideas and assumptions about the new system.  
( T / F )
- (iii) Input Design is a document that sets rules for the design of a new development.  
( T / F )
- (iv) Training refers to the acquisition of knowledge, skills, and competence.  
( T / F )
- (v) Back-end tools analysis automate the early activities in the systems development process.  
( T / F )

5)

**III. Answer the following questions:**

**(2x5=10)**

e

a. What is Decision Support System ?

w

b. Write the four notation of Data Flow Diagram ?

stems

(c)

c. What is Code design?

d. Explain Warnier/Orr diagram ?

- e. Draw the form design of Financial Accounting System at least four(4) forms.